DISRUPTIVE TECHNOLOGY

CARBON FOOTPRINT

>50% Reduction Global Data Centers Impact on the Environment

GREENING EFFECT

20x PUE less than NEW Dell MX7000 and 41x SqFt. truly disruptive!

CLOUD SCALABILITY

100x True DR/BCP over AWS, Azure and Google.

BOOSTING PERFORMANCE

7.5x More cores over the NEW Dell MX700, 228x more storage, 625x RAM and 4x network speeds.

IRR DOMINATES

$38-50M Overall, Z-IMPACT will generate a surplus! The reductions in CAPX and OPEX across the board will have CFOs jumping for joy! Just a small 5,000' Data Center reduced to 1,000' pays to replace current solution. Z-IMPACT ECOSYSTEM SAVINGS!

IT Industry Environmental Effects from Infrastructure Agility

START BY DOING WHAT IS NECESSARY;
THEN DO WHAT IS POSSIBLE;
AND SUDDENLY YOU'RE DOING THE IMPOSSIBLE.

- Saint Francis of Assisi

ENVIRONMENTAL IMPACT
CO2 Footprint | Greening Effect | Cloud Scalability

What if you could operate in a more healthy way… by reducing an industry's total **carbon footprint** by >50% by reducing the industries land use, Data Center size & mitigate building development by >50%; **greening the data center** by reducing it's electrical demand by >15 billion watts while also reducing power plant requirements and **cloud in-flight scalability** keeping pace with the fast evolving cloud industry providing Data Center scalability while consolidating the legacy infrastructure 1:n allowing greater Data Center density.

DISRUPTIVE TECHNOLOGY
Boosting Performance

Really bolster computing capabilities >30x and stay ahead of the competition? Z-IMPACT Disruptive Technology is the center-piece that brings about all the innovation of infrastructure agility. Z-IMPACT ultimate goal is a zero-impact to the environment to shrink or eliminate the Data Center as we know today.

WHAT ARE THE POSSIBILITIES…

IT leaders must factor in infrastructure agility, scalability and responsiveness when enabling digital business innovation to produce meaningful environmental effects… in steps leading to a Low Carbon IT Industry.

- **CO2 Footprint.** Seventeen (17%) of the total carbon footprint caused by technology is due to data centers.
- **Greening Effect.** The electricity that is needed to run these data centers is nearly 30 billion watts. These servers waste 90 percent of the energy they use because they run on full capacity all day long, rack density is non-optimized and hot/cold aisles are required to prevent infrastructure failure rates."
- **Cloud Scalability.** You need not only an advanced scaling solution, you need replication, DR, BCP and solutions to ensure you can scale not only across a physical solution we need to scale across regions or countries or theaters of operation as well in geographic synchronicity, interconnected as a single-pane-of-glass.
- Boosting Performance. Our net effect on the economics today offers a >50% reduction in: carbon footprint, power demands, power plant requirements, data center physical size, data center internal space footprint, land and building requirements.

Disruptive Technology creates significant advantages! Utilizing our design will enable new value chains both horizontally and vertically depending upon the level of adoption. No other IT vendor comes close to Z-IMPACTs possibilities...

Market Solutions

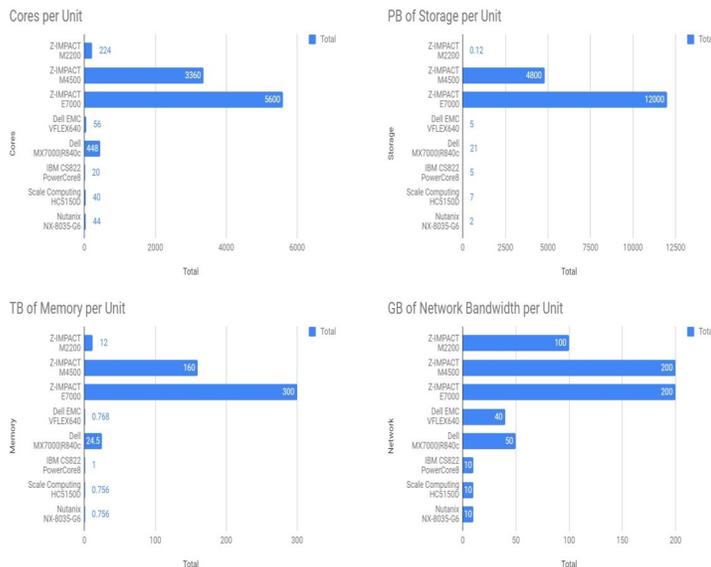**iStormCloud iHardware Complete Family of Appliances**

Z-IMPACT effectively handles the impact of a data center's overall effects on all sizing footprints, power requirements and supportive personnel. This all has an effect on the natural environment, Z-IMPACT has focus on a "total solution" that's laser focused on the industry as a whole and will have cause-and-effect that ripples through this whole market that reduces the requirements of supporting local power plants and ultimately the carbon footprint output on our world.

Market Comparisons

Rack Footprint	Cores	Memory TB	Storage PB	Network	Total U's	# RACKS	Center SqFt	Cost Sq. ft	Power (KW)	24-hrs(KW)	Year (KW)	Cost 13.02c	Cost Year
Z-IMPACT M2200	224	12	0.12	100	144	3	432	$4,486,234	144	3,456	1,261,440	$450	$164,252
Z-IMPACT M4500	3360	160	4800	200	42	1	97	$1,121,558	36	864	315,360	$113	$41,063
Z-IMPACT 7000	5600	300	12000	200	42	1	97	$2,990,822	96	2,304	840,960	$300	$109,501
Dell EMC VFLEX640	56	0.768	5	40	2,300	55	5,300	$39,061,776	1,254	30,092	10,983,398	$3,918	$1,430,148
Dell MX7000	448	24.5	21	50	1,747	42	4,067	$22,552,262	724	17,373	6,341,249	$2,262	$825,694
IBM CS822	20	1	5	10	2,736	65	6,306	$59,666,907	1,915	45,965	16,777,152	$5,985	$2,184,553
Scale Computing	40	0.756	7	10	2,018	49	4,743	$23,570,529	757	18,158	6,627,566	$2,364	$862,975
Nutanix	44	0.756	2	10	5,469	131	12,681	$187,418,936	6,016	144,379	52,698,491	$18,800	$6,861,871

Increase performance 7.5-168x # of cores. Z-IMPACT M4500: 3360 Cores, 160 TB Memory, 200GB/s Network, and 48 PB Storage. If your organization is dispersed it can handle anything your organization can throw at it. It can grow with your business and scale up to a full blown iStormCloud E7000 Vault if needed.

Cores per Unit

Unit	Cores
Z-IMPACT M2200	224
Z-IMPACT M4500	3360
Z-IMPACT E7000	5600
Dell EMC VFLEX640	56
Dell MX7000/R840c	448
IBM CS822 PowerCore8	20
Scale Computing HC51500	40
Nutanix NX-8035-G6	44

PB of Storage per Unit

Unit	Storage
Z-IMPACT M2200	0.12
Z-IMPACT M4500	4800
Z-IMPACT E7000	12000
Dell EMC VFLEX640	5
Dell MX7000/R840c	21
IBM CS822 PowerCore8	5
Scale Computing HC51500	7
Nutanix NX-8035-G6	2

TB of Memory per Unit

Unit	Memory
Z-IMPACT M2200	12
Z-IMPACT M4500	160
Z-IMPACT E7000	300
Dell EMC VFLEX640	0.768
Dell MX7000/R840c	24.5
IBM CS822 PowerCore8	
Scale Computing HC51500	0.756
Nutanix NX-8035-G6	0.756

GB of Network Bandwidth per Unit

Unit	Network
Z-IMPACT M2200	100
Z-IMPACT M4500	200
Z-IMPACT E7000	200
Dell EMC VFLEX640	40
Dell MX7000/R840c	50
IBM CS822 PowerCore8	10
Scale Computing HC51500	10
Nutanix NX-8035-G6	10